## REMARKS

Claims 1-13 are presently pending and stand rejected under 35 U.S.C. \$ 103(a) as being obvious from the combination of Canfield in view of Quatieri.

Claim 1 recites, among other limitations, "replacing the initial phases of at least one of the frames with the ending phases of another frame". Examiner has indicated that Canfield discloses "replacing the initial phases of at least one of the frames with the ending phases of another frame (column 3, lines 30-67)". Office Action at 3.

Canfield, column 3, lines 30-67 merely recites:

 $\texttt{MATA ARRAY 0} | \texttt{H00}, D1, D2, D3, D4, D5, D6, D7 \} \qquad \texttt{Eq.3} \quad \texttt{30}$ 

The addition theorem allows Eq. 3 to be divided into two strays without changing the transform:

where

(Data arbay oʻsidata array e'sidata array e'si — eq. 6

In this case each array would require 64 operations to perform a DFT, thus doubling the number of operations. Yet, this situation must be examined further. With the Stretching Theorem, the transform of a stretched array is the same as the transform of the unstretched array, except that it is 45 repeated. The fact that the amplitudes are halved can be ignated during this discussion, because the amplitudes will shill be present in the same ratios. (Zonat 1995)

Xibuu [DAIA ARBAY 3 ]=[73, F2, F4, F6, F0, F2, F4, F6] Eq. 7 50

As expected, the transform of the four data points is repeated. But, if the zeros are removed from the array, the same components will result, but only once.

[DATA ARRAY 1]=[D0, D2, D4, D6] Eq. 3 S5

Xisum (DATA ARRAY 1]∞[F0, F2, F4, F6] Eq. 9

In the same fashion:

After the transforms in equations 9 and 11 are obtained the transforms of [DATA ARRAY 1] and [DATA ARRAY 2] 65 are combined. The transform of [DATA ARRAY 1] is obtained by stretching, or repeating the transform of [DATA

Assignee respectfully traverses the rejection and notes that the foregoing merely demonstrates "[I]f the 8 point array were split into two 4 point arrays, each 4

point DFT would need only 16 complex operations." Col. 3, Lines 19-21.

It is respectfully submitted that the combination of Canfield and Quatieri do not teach "replacing the initial phases of at least one of the frames with the ending phases of another frame". Accordingly, Assignee respectfully requests that Examiner withdraw the rejection to claims 1, 6, and 11, as well as to dependent claims 2-5, 7-10, and 12-15.

The Commissioner is authorized to charge such required fee to deposit Account No. 13-0017.

Respectfully submitted,

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